

The Faculty of Medicine
Columbia University

POSTGRADUATE COURSES

in

CLINICAL MEDICINE

1969-1970

Opening Dates of Courses

Spec 6/11
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Serial
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1969-1970

JUNE THROUGH DECEMBER, 1969

JUNE 30	Psychiatry PM 2	OCT 3	Medicine PM 74
JULY 1	Pathology GM 1	OCT 4	Medicine PM 62
SEPT 2	Psychiatry PM 3	OCT 6	Radiology PM 70
SEPT 10	Medicine PM 89	OCT 15	Medicine PM 73 Obstetrics-Gynecology PM 2
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JANUARY THROUGH JULY, 1970

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JAN 5	Urology PM 1	MAR 30	Otorhinolaryngology PM 3
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JAN 19	Surgery PM 23	APR 2	Medicine PM 60 Radiology PM 6
FEB 1	Medicine PM 85	APR 19	Medicine PM 88
FEB 3	Medicine PM 3 Radiology PM 4	MAY 4	Neurology PM 2
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MAR 18	Radiology PM 5	MAY 18	Neurology PM 3

1971 SPRING TERM Radiology PM 2

The Faculty of Medicine of Columbia University

Postgraduate Courses
in
Clinical Medicine

1969-1970

Andrew W. Cordier, Ph.D., LL.D., L.H.D., D.P.S. *Acting President of the University*

Polykarp Kusch, Ph.D., Sc.D. *Vice President and Dean of Faculties of the University*

H. Houston Merritt, M.D. *Vice President in Charge of Medical Affairs and Dean of the Faculty of Medicine*

Melvin D. Yahr, M.D. *Associate Dean of the Faculty of Medicine*



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The Postgraduate Program

The Columbia postgraduate program enables practicing physicians in general medicine and in the various specialties to renew and continue their educational experiences in fields where medical research and daily clinical observations present constantly changing concepts of prevention, diagnosis, and treatment of diseases.

It must be stressed that the program is not intended to meet the needs of the physician who seeks to become a specialist. Nor is it intended to provide the foreign-trained physician with a broad understanding of medicine in the United States. These objectives are best achieved by residency training or by long-term, full-time courses. Information concerning residency training can be obtained by writing to the appropriate departmental chairman in the College of Physicians and Surgeons.

COURSES FOR GENERAL PRACTITIONERS

These courses acquaint the general practitioner with the latest advances in the various fields of medicine and emphasize diagnosis and treatment. Much of the instruction is carried out in small groups at the bedside and in the outpatient clinics. Ample clinical material is provided by conducting the courses at selected hospitals where the various related aspects of medical practice are stressed. In some courses, the facilities of several hospitals are used. No attempt is made to offer a complete curriculum at any one institution.

In association with the Harlem Hospital Center a program of bimonthly seminars for practicing physicians is offered on a no-fee basis and for credit with the American Academy of General Practice. No prior registration is necessary. Information on the time and place of these sessions is available at the Harlem Hospital Center (telephone: area code 212; 286-3300, extension 748).

COURSES FOR SPECIALISTS

Numerous short-term courses in subjects of interest and value to the specialist are listed alphabetically under the heading "For Specialists Only." The program of study is necessarily flexible. Long-term courses in two specialties are available: *Psychiatry PM 2* and *Psychiatry PM 3*, and *Pathology GM 1*.

► ADMISSION REQUIREMENTS AND PROCEDURES

An applicant must hold a Doctor of Medicine degree from a school of medicine approved by the University and must be a physician in good standing. Admission to courses headed "For Specialists Only" is limited to physicians who have had adequate preliminary training and experience in the related specialty.

Two application forms are printed on the last pages of this bulletin. *Both forms*

must be filled out in full and returned to Melvin D. Yahr, M.D., Associate Dean, College of Physicians and Surgeons, New York, N.Y. 10032. The forms should be accompanied by a check made payable to Columbia University for the full tuition; the amount of the fee is included in the description of each course. Completed forms should reach the teaching center not later than two weeks before the opening date of the course.

All applicants will be asked to give social security numbers when registering in the University. Those who do not now have a number should obtain one from their local social security office well in advance of registration.

Note: According to Treasury decision 6291, under Section 162 of the 1954 Internal Revenue Code, income tax deductions are allowed in many instances for tuition and other educational expenses. Students are referred to the federal ruling on income tax deductions for teachers and other professional people seeking to maintain or improve skills required in their employment.

Applicants are reminded that hotel rooms, apartments, and other temporary living accommodations are almost impossible to find near any of the teaching centers. All the centers, however, are easily accessible from the midtown area, where such housing is more likely to be available. Students who wish to live near the Morningside campus of the University (in the vicinity of 116th Street and Broadway) may write for information to the Registry of Off-Campus Accommodations, 115 Livingston, Columbia University, New York, N.Y. 10027. Some accommodations are available in the immediate vicinity of the Columbia-Presbyterian Medical Center in the medical students' residence hall. For information write to Bard Hall, 50 Haven Avenue, New York, N.Y. 10032, or telephone (area code 212) 923-6800.

The Columbia-Presbyterian Medical Center is accessible from the midtown area on the West Side by way of the Seventh and Eighth avenue subways, both of which stop at 168th Street.

If an applicant is not accepted, or if a course applied for is canceled, refund will be made. *If a student withdraws later than ten days before the course begins, there will be no refund.*

► STATEMENTS OF ATTENDANCE

The courses listed in this bulletin do not constitute credit toward any degree, and no diplomas or certificates are awarded. A short statement of attendance will be issued on request. Students should write to the Assistant Registrar, 630 West 168th Street, New York, N.Y. 10032. Students who audit courses do not receive a statement of attendance.

► DEGREE PROGRAMS

Doctor of Medical Science. The University confers the Doctor of Medical Science (Med.Sc.D.) degree upon a few physicians who have a particular interest and competence in one of the basic science fields. *Only members of the staff of the Columbia-*

Presbyterian Medical Center are eligible for this degree. A minimum of one year of full-time work in the selected basic science field is required. Additional requirements include passing a comprehensive examination, completion of a significant, original research project, submission of a dissertation, and passing an oral examination.

Master of Science in radiological physics. The Faculty of Medicine offers a program of study in radiological physics leading to the degree of Master of Science. This program is designed to prepare candidates to carry out all functions of a physicist in a hospital department of radiology; it also furnishes a foundation for those who wish to engage in research or who are interested in the application of radiological physics, radiation protection, and dosimetry. Prerequisite for admission is a bachelor's degree with a major or strong minor in physics, or an equivalent scholastic background, and a good academic record.

Further information can be obtained from the Office of the Dean, College of Physicians and Surgeons, 630 West 168th Street, New York, N.Y. 10032.

► AFFILIATED HOSPITALS AT WHICH POSTGRADUATE COURSES ARE OFFERED

THE COLUMBIA-PRESBYTERIAN MEDICAL CENTER

A permanent affiliation between Columbia University and the Presbyterian Hospital was established in 1921. The College of Physicians and Surgeons of Columbia University in conjunction with the Presbyterian Hospital and several other institutions comprising the Medical Center now occupy a plot of land given to Columbia University and the Presbyterian Hospital by Mrs. Stephen V. Harkness and Mr. Edward S. Harkness. The land, extending from West 165th Street to West 168th Street and from Broadway to Riverside Park, comprises about twenty acres and is readily accessible from all parts of the city.

The Medical Center was opened in 1928. The Medical Center group is as follows: College of Physicians and Surgeons; School of Dental and Oral Surgery; School of Public Health and Administrative Medicine; Department of Nursing; Washington Heights Health and Teaching Center; New York State Psychiatric Institute; Francis Delafield Hospital; the Presbyterian Hospital and its subdivisions—Squier Urological Clinic, the Institute of Ophthalmology, Harkness Pavilion, Sloane Hospital for Women, Vanderbilt Clinic, Babies Hospital, Neurological Institute and the New York Orthopaedic Hospital.

The Presbyterian Hospital was founded in 1868. The hospital occupies a twenty-two-story building in which are the wards of the medical and surgical services. Under the terms of the affiliation with Columbia University, members of the hospital staff are appointed by the Board of Trustees on nomination by the Trustees of the University. There are 435 teaching beds (Sloane, Squier, Presbyterian).

Squier Urological Clinic occupies the tenth floor of the Presbyterian Hospital building and the tenth floor of Babies Hospital. There are 67 beds for the care of adults and 19 beds for babies and children.

The *Institute of Ophthalmology* was made possible by the generosity of Edward S. Harkness. It contains 37 ward beds and is devoted to the care and study of diseases of the eye.

Harkness Pavilion is available for private patients of the attending staff.

Sloane Hospital for Women, originally at West 59th Street and Amsterdam Avenue, was presented to Columbia University by Mr. and Mrs. William D. Sloane in 1886. It now occupies three floors of the Presbyterian Hospital building for ward and semiprivate patients and two floors in Harkness Pavilion for private patients. The wards of the hospital furnish 116 beds for obstetrical and gynecological patients. There are about thirty-five hundred deliveries a year.

Vanderbilt Clinic, presented by the Vanderbilt family to the University in 1888, is the outpatient department for all the hospitals in the Medical Center.

Babies Hospital provides for general medical and surgical care of infants and children up to and including twelve years of age. It is used for the instruction of medical students and residents, but no formal postgraduate courses are offered.

Neurological Institute, one of the first nongovernmental hospitals in this country for the treatment of nervous diseases, was founded in 1909. The 104 ward beds are devoted exclusively to treatment of diseases of the nervous system. There are facilities for bedside teaching in the wards for undergraduate and graduate students.

New York Orthopaedic Hospital, established in 1868, was consolidated with the Presbyterian Hospital in 1945. It now occupies the fifth floors of the Presbyterian Hospital building and of Babies Hospital. There are 67 ward beds.

New York State Psychiatric Institute is a 176-bed hospital, built and maintained by the State of New York, with provisions for the study and treatment of all types of psychiatric disorders. There are special facilities for the treatment of children presenting behavior and personality problems. Connected with the hospital is an active outpatient department providing diagnostic and treatment facilities in psychiatric problems of both adults and children. The hospital maintains special clinical and research laboratories and an extensive psychiatric library.

Francis Delafield Hospital, built and maintained by the City of New York, is a 285-bed hospital for the treatment and study of cancer.

OTHER AFFILIATED HOSPITALS USED FOR POSTGRADUATE TEACHING

St. Luke's Hospital Center, Amsterdam Avenue and 114th Street, consists of St. Luke's Hospital, founded in 1850, and the Woman's Hospital, founded in 1855. The institution has been affiliated with the College of Physicians and Surgeons since 1947, and its staff participates actively in the undergraduate and graduate teaching programs. The Center has 735 beds, of which 352 are available for teaching purposes.

Brookdale Hospital Center, Linden Boulevard and Rockaway Parkway, Brook-

lyn, was opened in 1921. A participant in the postgraduate program, the hospital has 400 beds.

Harlem Hospital Center, 136th Street and Lenox Avenue, was founded in 1887 and has 876 beds. It has been affiliated with the College of Physicians and Surgeons since 1962.

Courses of Instruction

The University reserves the right to withdraw or modify the courses in instruction or to change the instructors as may be necessary.

ANESTHESIOLOGY

Anesthesiology PM 1. Advances in clinical anesthesiology

One Saturday, 8:30–5. Dec 13, 1969. \$50.

Dr. E. M. Papper and staff. Columbia-Presbyterian.

Open to anesthesiologists and other interested physicians.

Presentation of the current practices of anesthesia at the Columbia-Presbyterian Medical Center and affiliated hospitals.

INTERNAL MEDICINE

Medicine PM 1. Seminars in medical genetics and developmental biology

Fifteen Mondays, 12–1:30. Sept. 29, 1969–Jan 26, 1970, omitting Dec 15, 22, and 29. \$100.

Professor P. A. Marks and associates. Columbia-Presbyterian.

Admission after review of application.

Recent advances in molecular biology, developmental biology, genetics, and metabolism as they relate to problems in medicine.

Medicine PM 2. Seminars in cardiorespiratory physiology

Wednesdays, 4:30–5:30. Sept. 17, 1969–June 24, 1970, omitting Dec 24 and 31. No fee.

Dr. J. O. Burris (*seminar chairman*), Columbia-Presbyterian staff members, and invited guests. Columbia-Presbyterian.

Open to physicians with clinical, investigative, and teaching interests in medicine, physiology, pharmacology, and anesthesiology.

A critical review of the latest advances in the field and the questions they raise. Maximum class, thirty.

Medicine PM 3. Control systems in biology and medicine

Seventeen Tuesdays, 3–5:30. Feb 3–May 26, 1970. \$125.

Professor A. DiI Pare. Columbia.

Transient response of first and second order components; block diagram algebra; transient response of control systems; stability analysis; control systems for regulation of systemic arterial pressure and ventilation; experimental techniques for frequency response analysis of biological systems; derangements in the control of blood pressure and ventilation. The use of analog computer in analysis of control systems.

Medicine PM 4. Clinical electrocardiography

Eight Days 12–1. Nov. 19, 20, 26, and Dec 3, 4, 10, 11, 17, 1969. \$150.

Dr. M. Irene Ferrer. Columbia-Presbyterian.

Open to physicians with a special interest in electrocardiography. Lectures on the background of normal electrophysiology and important abnormalities of the electrocardiogram.

Medicine PM 5. Advanced clinical electrocardiography

Schedule arranged individually. Four to six weeks, half days. \$200.

Dr. M. Irene Ferrer. Columbia-Presbyterian.

Prerequisite: *Medicine PM 4.*

Open to a limited number of physicians after personal interview.

Candidates must have certification by the American Board of Internal Medicine.

A practical course in clinical electrocardiography. Records are correlated with clinical conditions.

Medicine PM 6. Combined staff clinics

Saturdays, 10:30–12. Sept 27, 1969–Apr 25, 1970. No fee.

Drs. Stanley E. Bradley, Gerard M. Turino, and staff, and invited guests from other medical centers. Columbia-Presbyterian.

Open to physicians with the M.D. degree. Preregistration is not required.

Conferences organized by the Department of Medicine to consider new concepts in biological science and in clinical medicine, and to demonstrate their relationships in specific disease states.

Medicine PM 60. Clinical nutrition and metabolism

Three days, Th–Sat 9–12 and 1–4. Apr 2–4, 1970. \$75.

Drs. T. B. Van Itallie, W. H. Sebrell, Jr., S. A. Hashim, and associates. St. Luke's.

Integration of clinical manifestations of nutritional and metabolic diseases, with the underlying biochemical, physiologic, and histologic lesions. Disorders considered include obesity, diabetes, atherosclerosis, hyperlipidemia, malabsorption, and selected instances of primary and secondary malnutrition encountered in the United States. Modern trends in treatment are reviewed. Discussions are oriented to case presentations. Maximum class, ten; minimum class, four.

Medicine PM 62. Clinical cardiology

Twenty-eight Saturdays, 9:30–12:30. Oct 4, 1969–May 23, 1970, omitting Nov 22, 29, Dec 27, Jan 3, Feb 28, and Apr 11. \$225.

Drs. E. P. Childs, A. L. L. Bell, Jr., M. J. Schwartz, and associates. St. Luke's.

All aspects of the diagnosis and treatment of diseases and anomalies of the heart and great vessels in all age groups, ambulatory and hospitalized, are considered. History and physical examinations are stressed and correlated with electrocardiographic, vectorcardiographic, phonocardiographic, fluoroscopic, x-ray angiocardiographic, and cine studies. Physiologic data from left and right heart cardiac catheterizations are an important feature of the course. Treatment includes conventional therapy with rest, diet, glycosides, diuretics, and the drug treatment of arrhythmia. Surgical procedures are presented with emphasis on case selection and postoperative care. Electrical treatment of arrhythmias and cardiac pacemakers are considered and demonstrated as occasion arises. Resuscitation techniques are also taught.

Current clinical material is utilized throughout the course, and all procedures are demonstrated. Maximum class, eighteen; minimum class, ten.

Medicine PM 73. Pediatric cardiology

Five Wednesday, 7–9 p.m. Oct 15–Nov 12, 1969. \$35.

Dr. Richard J. Golinko. Brookdale Hospital Center.

A concise description, including anatomy and pathophysiology, of the more commonly encountered congenital cardiac malformations. In each case, the physical signs and symptoms as well as the electrocardiographic and radiologic findings are discussed in relation to the existing alteration in hemodynamics. Illustrative electrocardiograms and x-rays, including cineangiograms, are shown. General emphasis is on the infant age group, where the greatest morbidity and mortality exists. Early and precise diagnosis as well as prompt treatment is stressed. Minimum class, five.

Medicine PM 74. Electrocardiography

Sixteen alternate Fridays, 9–10:30 a.m. Oct 3, 1969–May 1, 1970. \$125.

Drs. Alan Lyon, Richard S. Levine, and Warren A. Kossowsky. Brookdale Hospital Center.

An introduction to electrocardiography, covering the general principles of the modern vectorial approach to electrocardiographic interpretation as well as discussion of specific criteria of hypertrophy, bundle branch blocks, infarctions in various locations, and conduction defects. Detailed discussion of the range of normal variation and the separation of the normal variant ST & T change from those due to disease. The last two weeks include practical exercises and interpretation. Minimum class, five.

Medicine PM 75. Clinical biochemistry and physiology

Dr. Alvin Kahn. Wednesdays from Sept 10, 1969–June 3, 1970. 4–5 p.m.
 Fee \$20. Brookdale Hospital Center.

Topics include clinical genetics, disorders of carbohydrate metabolism, disorders of fat metabolism, disorders of protein metabolism, and interrelationships in metabolic cycles as they relate to atherosclerosis, diabetes mellitus, and inborn errors of metabolism.

► SUNDAY SEMINARS AT THE BROOKDALE HOSPITAL CENTER

The following one-day seminars are held from 9 a.m. to 2 p.m. on the dates indicated. No fee.

Medicine PM 80. Psychiatric problems and medical practice

Dr. John Frosch. September 28, 1969.

Psychiatric emergencies and the use of tranquilizers and antidepressants.

Medicine PM 81. Nature and management of malignant disease

Dr. Alvin Kahn. October 26, 1969.

The metabolism of cancer, screening tests for early cancer, and the use of new drugs in its treatment. Specific areas covered: radiological manifestations of lung cancer, diagnosis of brain tumors, skin cancers, hormonal effects of malignancy, and directions of cancer research.

Medicine PM 82. Liver cirrhosis

Dr. Stanley Stark. November 16, 1969.

The classification, clinical manifestations, and complications of liver cirrhosis. A discussion of the pathology and the medical and surgical treatment of the disease is included.

Medicine PM 83. Current status of anticoagulant therapy

Dr. Alan Lyon. December 7, 1969.

The indications for anticoagulant therapy in peripheral vascular disease, pulmonary embolism, and cerebral arterial disease. Discussion of the techniques of anticoagulation, including the controversial issue of heparin vs. coumadin, and discussion of the present status of use of fibrinolytics.

Medicine PM 84. Pulmonary embolization

Dr. Stanley Sahn. January 11, 1970.

The pathogenesis, clinical and radiological diagnosis, and medical and surgical therapy of pulmonary embolism.

Medicine PM 85. Infectious diseases and the use of gamma globulin

Dr. Jerry Bloom. February 1, 1970.

The discussion includes mycoplasmae, fungal infections, mycobacteria, and the use and abuse of gamma globulin.

Medicine PM 86. Nephrotic syndrome in children and adults

Dr. Jerome Porush. March 1, 1970.

The pathology and clinical presentation of the nephrotic syndrome in childhood and adults. Discussion of the pathophysiology of edema and general approaches to therapy.

Medicine PM 87. Diseases of the thyroid gland

Dr. Arnold I. Silverberg. March 22, 1970.

Discussion of hyperthyroidism and endocrine exophthalmos, thyroid cancer, the problem of thyroid nodule, autoimmunity and the thyroid gland, and the biosynthesis of thyroid hormone.

Medicine PM 88. Newer modalities in oral implantology

Dr. Norman Cranin. April 19, 1970.

Open only to dentists.

A comprehensive presentation of new developments in the field of oral implants.

NEUROLOGY**Neurology PM 2. Neuro-ophthalmology**

Three days, Mon–Wed 9–4:30. May 4–6, 1970. \$100.

Dr. R. S. Jampel. Columbia-Presbyterian.

Lectures on the clinical anatomy and physiology of the visual sensory and motor systems provide background for the understanding of diagnostic tests and clinical syndromes in neuro-ophthalmology. The interrelationships between neurology and ophthalmology are emphasized.

Neurology PM 3. Pediatric neurology

Five days, Mon–Fri 9–5. May 18–22, 1970. \$175.

Professor S. Carter and staff. Columbia-Presbyterian.

Limited to specialists in neurology, pediatrics, child psychiatry, or neurosurgery.

A seminar on the nervous system in childhood; clinical demonstrations, panels, and discussions on clinical problems; anatomy and physiology of the developing nervous system.

Neuroradiology: *see Radiology PM 2.*

OBSTETRICS AND GYNECOLOGY**Obstetrics and Gynecology PM 1. Recent advances in obstetrics and gynecology**

Five days, Mon–Fri 8–5:30. Nov. 10–14, 1969. \$150.

Drs. Charles M. Steer, Equinn W. Munnell, Ralph M. Richart, and associates. Columbia-Presbyterian.

A survey of the major clinical and pathological problems pertaining to the female reproductive system. Recent advances and currently used techniques are emphasized, including descriptions of some experimental approaches. A review of gynecologic pathology is included.

Obstetrics and Gynecology PM 2. Diagnostic procedures for safeguarding the intra-uterine patient

Three days, Wed–Fri 9–5. Oct 15–17, 1969. \$125.

Drs. L. Stanley James, Karlis Adamsons, and associates. Columbia-Presbyterian.

Lectures and practical demonstrations, with particular emphasis on methods of sampling and analysis of fetal capillary blood, amniocentesis, fetal ECG, and radiologic examination of fetus. Additional topics include acid-base homeostasis of the fetus and correction of neonatal acidosis.

Neuro-ophthalmology: *see Neurology PM 2.*

OPHTHALMOLOGY**ORTHOPEDIC SURGERY****Orthopedic Surgery PM 1. Orthopedic surgery and pathology**

Twelve days, Mon–Fri 8–8. Dec 1–12, 1969. \$250.

Drs. F. E. Stinchfield, Austin D. Johnston, Alexander Garcia, and Joseph E. Salvatore. Columbia-Presbyterian.

Intensive course in orthopedic surgery. Designed for specialists and other physicians interested in musculoskeletal disease.

Seminars, lectures, and anatomical demonstrations on anatomy, biochemistry, physiology, hand surgery, adult and children's orthopedics, trauma, prosthetics and orthotics, bio-mechanics, and physical therapy, as they apply to orthopedic surgery. The pathology section presents an intensive review of skeletal-muscular diseases in a daily series of laboratory exercises including diagnostic identification of unknown tissue sections, gross specimens, and projected kodachrome reproductions of microscopic, roentgenographic, and macroscopic material. Demonstration, didactic discussion, and oral quizzes in small groups. Microscope required.

Orthopedic Surgery PM 2. Scoliosis

Three days, Th–Fri 8–6 and Sat 8–12 noon. Oct 2–4, 1969. \$150.

Dr. Hugo A. Keim and guest lecturers. Columbia-Presbyterian.

Intensive course in diagnosis and management of scoliosis. All aspects are covered and presented by various leaders in the field. Etiology, classification, roentgen diagnosis, and all forms of treatment are discussed. Use of the Milwaukee brace, spinal instrumentation, halo-femoral traction, and surgical techniques with complications are also presented. In addition to didactic lectures, open discussion periods are held.

OTOLARYNGOLOGY

FOR SPECIALISTS ONLY

Otolaryngology PM 2. Histopathology of the ear, nose, and throat

Ten days, Tu and Th 6–8 p.m. Mar 31–Apr 30, 1970. \$100.

Drs. M. Kovar, M. Schvey, and J. Waltner. Columbia-Presbyterian.

Review of the basic microscopic anatomy and the more common histopathological conditions of interest to the otorhinolaryngologist. Enrollment is strictly limited and a personal interview is required.

NOTE: students must have their own microscopes including low- and high-power objectives.

Otorhinolaryngology PM 3. Head and neck surgery

One week, Mon–Sat 8–5. Mar 30–Apr 4, 1970. \$300.

Dr. J. Conley and associates. Columbia-Presbyterian.

Open to otolaryngologists and general surgeons whose surgical background and opportunities permit them to undertake further training in major surgery of the head and neck.

Surgery in the operating room, cadaver material, and formal lectures by a diversified composite staff are used to illustrate the standard operations and to cover the essential aspects of tumor biology in the head and neck. Maximum class, fifteen.

PATHOLOGY

Pathology GM 1. Surgical pathology

Six or twelve months beginning on the first day of any month between July 1, 1969, and July 1, 1970. Full time. \$300 for six months; \$600 for twelve months.

Professor R. Lattes. Columbia-Presbyterian.

Admission through preliminary interview.

Integral part of the training of graduate students pursuing advanced studies in surgery and pathology. Students participate in the activities of the surgical pathology section at the College of Physicians and Surgeons and various units of the Medical Center.

PEDIATRICS

Pediatric cardiology: see *Medicine PM 73*.

Pediatric neurology: see *Neurology PM 3*.

PSYCHIATRY

Psychiatry PM 1. Symposium on neurology and psychiatry

Ten weeks, Mon–Fri 9–5. Sept 29–Dec 5, 1969. \$350.

Dr. L. C. Kolb and the staffs of the New York State Psychiatric Institute and the Neurological Institute. Columbia-Presbyterian.

Open only to physicians who have had considerable previous training and experience in neurology and psychiatry. Physicians on the staffs of institutions under the New York State Department of Mental Hygiene are admitted without payment of tuition or registration fees.

The symposium—a review of neurology and psychiatry—is made up of courses grouped under the four general headings below. These courses may not be taken individually. A detailed schedule of classes may be obtained on request.

A. Basic Neurology. Drs. M. Glusman, A. Gold, P. F. Hoefer, M. Kaufman, L. V. Lyons, L. Roizin, and E. Wood.

A course in neuroanatomy, presenting essential anatomical and associated neurophysiological features of the spinal cord and brain. The course on basic neurophysiology will deal with the functional relationship of the various portions of the nervous system which are especially related to neural disturbances found in certain neurological and psychiatric disorders. Clinical neurophysiology (electroencephalography) will be correlated with clinical observations. A special course will be given on the physiology of the autonomic nervous system in the light of psychosomatic concepts. The course in neuropathology consists of lectures and demonstrations of gross specimens and microscopic slides. Correlation between clinical findings and pathological lesions will be taken into consideration. Demonstrations will include presentation of microscopic and gross material illustrating the lecture material.

B. Clinical Neurology. Dr. M. Yahr.

Clinical lectures and demonstrations illustrating the chief organic diseases of the nervous system. The technique of neurological examination, explaining the significance of neurological signs and symptoms. Therapy in neurology will include the various types and methods used in the treatment of nervous diseases with special reference to physiotherapeutic and occupational therapy methods. The roentgenographic interpretations of the diseases affecting the nervous system will consist of study of the various lesions affecting the skull and intracranial contents and spinal cord. Emphasis on electroencephalography.

C. Basic Psychiatry. Drs. A. Carr, H. Hunt, A. Neidle, J. Rainer, and W. Thetford.

Lectures on intelligence, memory, perception, etc., and psychological testing procedures. Psychodynamics will acquaint the student with levels of psychological organization, conscious and unconscious integration, and motivation of psychic action. Comparative psychodynamics will investigate the theoretical and therapeutic principles of the different psychoanalytic and psychotherapeutic schools. Genetics and mental disease will consist of a description of basic genetic laws and theories, plus modern research methods and the genetics of schizophrenia, manic depressive psychosis, and other mental disorders. Special lectures on new advances in chemistry and medicine in relation to neurochemistry.

D. Clinical Psychiatry. Drs. H. Brill, R. Campbell, O. Diamond, A. Foley, S. H. Frazier, G. A. Jervis, L. C. Kolb, W. S. Langford, S. Malitz, L. Moses, P. Polatin, and J. Ryan.

History and somatogenic and psychogenic aspects of the different psychiatric disorders, correlating the best known theories and practices. Will integrate the lectures on basic psychiatry with diagnosis, prognosis, and therapy. A similar course will be given on child psychiatry from the same point of view. The lectures on therapy are subdivided as follows: (1) the practice of psychoanalysis, a survey of the chronological development of Freud's conception of psychoanalysis and discussion of the clinical application of psychoanalysis to the study and treatment of neurosis and psychosis; (2) non-analytic forms of psychotherapy, which will discuss suggestions, hypnosis, and other forms of psychotherapy from a psychodynamic point of view. Organic therapy, shock treatment, psychopharmacologic agents—tranquilizers, antidepressant drugs, etc.—will be discussed. Legal psychiatry will cover the forensic aspects, commitment, court procedures, and the relationship of criminology to psychiatry. Mental hygiene and community psychiatry will consider preventive psychiatry from the earliest period of life to the adult years.

Psychiatry PM 2. Female and child psychiatry

June 30, 1969–June 26, 1970. Full time. Columbia-Presbyterian. \$800.

A second-year level of residency training in psychiatry in the combined program of the New York State Psychiatric Institute and Presbyterian Hospital. The program emphasizes treatment of women and children both on an inpatient and outpatient service. Personal supervision is provided. Conferences and seminars are conducted by the members of the staff. This course is designed for physicians who have completed one year of psychiatric training in the program at the U.S. Veterans Hospital, The Bronx, N.Y.

Psychiatry PM 3. Adult and child psychiatry

Sept 2, 1969–June 5, 1970. Full time. Columbia-Presbyterian. \$1,200.

Drs. A. Ballard, J. Cedarquist, H. Davidson, C. Kestenbaum, R. MacKinnon, L. Moss, J. O'Connor, A. Polatin, and J. Weissberg.

Residency training on a third-year level in the combined program of the New York State Psychiatric Institute and Presbyterian Hospital. This program provides for psychiatric treatment of adults and children in an outpatient department. Personal supervision of individual cases as well as conferences and seminars are conducted by the members of the staff. This course is open to physicians who have completed two years of training in the program provided by the New York State Department of Mental Hygiene.

Psychiatry PM 4. Medical hypnosis (basic)

Seven Saturdays, 10-1 and 2-5. Sept 27-Nov 8, 1969. \$175.

Dr. H. Spiegel. Columbia-Presbyterian.

Open to all physicians. A person interview may be required for admission. Limited registration. Lectures, case demonstrations, practice sessions, movies, television, slides, and seminars designed to present techniques and theories of hypnosis and to demonstrate the practical adjunctive uses of hypnosis in clinical medicine from the perspectives of diagnosis, therapy, and research.

Psychiatry PM 5. Hypnosis and psychiatry

Four Saturdays, 10-1 and 2-5. Jan 3-24, 1970. \$100.

Dr. H. Spiegel. Columbia-Presbyterian.

Open only to psychiatrists. Prerequisite: *Psychiatry PM 4* or the equivalent. A personal interview may be required for admission. Limited registration.

Lectures, seminars, and case material to elaborate the various techniques with which hypnosis can facilitate the psychotherapeutic process.

Psychiatry PM 6. Psychiatry in medical practice

Schedule arranged individually. Four hours a week. Sept 29, 1969-June 15, 1970. No fee.

Drs. L. C. Kolb, R. MacKinnon, A. Levay, and staff. Columbia-Presbyterian.

Open to all practicing physicians. Full credit from American Academy of General Practice.

Weekly seminars, case demonstrations, videotaped interviews, and personal supervisory sessions, designed to enhance the skill of general practitioners and specialists to diagnose and manage psychiatric problems encountered in their practice. Maximum class, ten.

PSYCHOANALYSIS

Specialized training of four years' duration in psychonalysis is offered at the Psychoanalytic Clinic for Training and Research of the Department of Psychiatry, Faculty of Medicine. A special bulletin regarding this training may be obtained upon request to the Director of the Psychoanalytic Clinic, 722 West 168th Street, New York, N.Y. 10032.

PUBLIC HEALTH

Selected courses in public health and administrative medicine, including hospital administration, are available at the School of Public Health and Administrative Medicine, Columbia-Presbyterian Medical Center. For a special bulletin and further information, write to the Director, School of Public Health and Administrative Medicine of the Faculty of Medicine, 600 West 168th Street, New York, N.Y. 10032.

RADIOLOGY**Radiology PM 1. Radiologic physics**

Fifteen weeks, Tu and Th 5-6. Sept 30, 1969-Jan 29, 1970, omitting Nov 4, 27, Dec 23-25, 30, and Jan 1. \$50.

Dr. Paul Goodwin. Columbia-Presbyterian.

The production, measurement, and control of x-rays and the rays from natural radioactive substances, particularly the application of these measurements to radiology. Specification and determination of radiation doses, in theory and practice. Review of the properties of radioactive isotopes of direct significance in medical diagnosis and therapy. Radiation hazards and protection against them.

FOR SPECIALISTS ONLY

Radiology PM 2. Neuroradiology

Five days (to be arranged in spring 1971), Mon–Fri 9–5:30.

Dr. E. Wood and associates. Columbia-Presbyterian.

The course is designed for radiologists, neurologists, and neurosurgeons; it covers, as thoroughly as possible, most of the topics of neuroradiology. Particular emphasis is placed on cerebral angiography, pneumoencephalography, plain film diagnosis, and myelography. The use of isotopes and other subjects are also covered. Teaching is by illustrated lectures, demonstrations, case presentations, and panel discussions.

Radiology PM 3. Radiology of bones and joints

Twelve Thursdays, 7–8:30 p.m. Sept 18–Dec 11, 1969, omitting Nov. 27. \$75.

Dr. M. Alpert, associates, and guest lecturers. Columbia-Presbyterian.

Lectures covering principles of the normal and abnormal appearance of the skeleton and its relationship to various diseases. The differential diagnosis of radiologic alterations of the skeleton is emphasized.

Radiology PM 4. Physics of diagnostic radiology

Eight weeks, Tu and Th 5–6. Feb 3–Mar 26, 1970. \$75.

Drs. S. Hilal, W. Seaman, and staff. Columbia-Presbyterian.

The fundamental principles of the production and absorption of x-rays, as related to diagnostic radiology. Presentation of the physical principles involved in fluoroscopic and intensifying screens, grids, and film emulsion. Factors influencing the contrast, resolution, and sharpness of x-ray image. Principles of film processing, statistical theory of x-ray image formation and perception, and discussion of the physical aspects of laminography, cine, xero radiography, and clinical exposure systems. A discussion of the radiation hazard involved in diagnostic radiology.

Radiology PM 5. Technical aspects of special procedures in radiology

Four days (to be arranged in spring 1970), Wed–Sat 8:30–5. \$125.

Dr. Sadek Hilal and associates. Columbia-Presbyterian.

Limited to radiologists with special interest in this field.

The various aspects of the special techniques and instruments used in radiology. X-ray generators, x-ray tubes, guide wires, catheters, needles, and choice of contrast media in angiography are discussed. The use of special techniques such as magnification angiography utilization of pharmacological agents and practical aspects regarding automatic x-ray processors and means of obtaining optimal film response are demonstrated. One session is devoted to safety measures, including appropriate methods of grounding patients, means of avoiding breakage, of various catheters, and guide wires.

Radiology PM 6. Nuclear medicine

Eight weeks, Tu and Th 5–6. Apr 2–May 28, 1970. \$75.

Dr. P. M. Johnson and staff. Columbia-Presbyterian.

Open to physicians with some experience or training in nuclear medicine. Formal lectures by a diversified composite staff, emphasizing medical diagnostic, therapeutic, and investigative uses of radioactive isotopes, together with protection and safe handling of these agents.

Radiology PM 7. Radiology of the gastrointestinal tract

Three days, Wed–Fri 9–5. May 6–8, 1970. \$100.

Dr. William B. Seaman and staff. Columbia-Presbyterian.

A review of the recent advances in the radiology of the gastrointestinal tract.

Radiology PM 21. Radiobiology

Twelve Wednesdays, 8–9 a.m. Sept. 24–Dec 17, 1969, omitting Dec 3. \$50.

Dr. Eric J. Hall. Columbia-Presbyterian.

Introduction to principles and procedures in the study of radiation effects in living systems. A survey course for radiology residents and graduate students in life sciences.

Radiology PM 70. Diagnostic roentgenology of diseases of the gastrointestinal tract

Ten Mondays, 3:30–5 p.m. Oct 6–Dec 8, 1969. \$70.

Drs. I. Bluth, B. Steger, and L. B. Garner. Brookdale Hospital Center.

Orientation of the clinician on the role of the roentgen examination and a discussion of its limitations. New techniques, including cinerentgenography, transhepatic cholangiography, splenoportography, and aortography are included. A part of each hour is devoted to gross pathology. Minimum class, five.

SURGERY**Surgery PM 10. Recent advances in colon surgery**

Five Thursdays, 3–5. Nov 6–Dec 11, 1969, omitting Nov 27. \$50.

Dr. C. B. Ripstein. Brookdale Hospital Center.

Lectures on recent advances in surgery of the colon and changing concepts of therapy and pathology in colon diseases. The anatomy and physiology of the colon, methods of examination, and pre- and postoperative care. Diverticulitis, ulcerative colitis, tumors of the colon, megacolon, and prolapse of the rectum are reviewed. Minimum class, five.

Surgery PM 22. Pre-and postoperative care

Five days, Mon–Fri 9–5. Oct 20–24, 1969. \$150.

Surgical staff of St. Luke's Hospital. St. Luke's Hospital.

Open to physicians who have completed their surgical training.

Basic sciences and clinical techniques in diagnosis and treatment. Current diagnostic and therapeutic practices as modified by recent advances in knowledge. A comprehensive, practical review of the physiology of the gastrointestinal tract, lungs, heart, peripheral vessels, tissue perfusion, urinary tract, liver, spleen pancreas, adrenals, and thyroid and parathyroid. For each system or organ listed above, the most common type of operation or operations are used as examples. Each step in the diagnosis and management of the patient is itemized, including all orders ordinarily written for the patient. Current treatment equipment is discussed. Physiological limits of normal values and the bases of their determination. The general subjects of wound healing, infection, antibiotics, shock, burns, fluids and electrolytes, enzymes, convalescence, anesthesia, and replantation and homotransplantation are also covered. Case presentations and clinical conferences. Maximum class, one hundred.

Surgery PM 23. Plastic and reconstructive surgery

Three days, Mon–Wed 9–5. Jan 19–21, 1970. \$100.

Plastic surgical staff of St. Luke's Hospital. St. Luke's Hospital

Open to plastic surgeons and those in training.

Basic science background of clinical problems is stressed as well as techniques and solutions to difficult clinical situations. The areas to be covered include surgical anatomy of the neck and hand, wound healing of soft tissue wounds, anesthesia in plastic surgery, etiological considerations in congenital malformation, cleft lip and palate, free and pedicle transplants, maxillofacial trauma, reconstruction of the nose, carcinoma of the head and neck, surgery of the breast for nonmalignant conditions, genito-urinary plastic surgery, surgery of the hand, surgery of the lower extremity, homotransplantation, and the treatment of burns.

UROLOGY**Urology PM 1. Urological pathology**

Ten days, Mon and Th 3–6:30. Jan 5–Feb 5, 1970. \$150.

Drs. M. M. Melicow and M. Tannenbaum. Columbia-Presbyterian.

The pathology of the genito-urinary tract, the adrenal glands, and the retroperitoneum is explored in detail, with illustrated lectures and demonstrations. Particular attention is given to the study of gross specimens and microscopic sections, and of urine sediments and cultures. Maximum class, thirty-five. In addition to the fee, students are required to make a \$200 deposit at the first class for two boxes of slides and a descriptive book. This money is refunded when the boxes of slides and book are returned in good condition at the end of the course. Students must furnish their own microscopes and lamps.

Before filling in the application forms, please read the instructions on pages 3-4.

COLUMBIA UNIVERSITY • FACULTY OF MEDICINE

Application for Admission to Postgraduate Courses

(Submit in Duplicate)

Date

Name
(Last Name) (First Name) (Middle Name)

Address Telephone

..... Soc. Sec. No.

Age Sex Citizenship

Medical school Date of degree

Licensed to practice medicine in (year) State

Internships:
(Hospital) (Service) (Dates)

Residencies:
(Hospital) (Service) (Dates)

Practice (indicate whether general or confined to a specialty)

Specialty board certification and present hospital affiliations:

I desire to apply for admission to the following course:

.....
(Course Number) (Title of Course) (Dates)

I enclose my check for \$, the amount of the full tuition (the check should be made payable to Columbia University).

The registration of the undersigned and his continuance upon the rolls are subject to all rules and provisions set forth in the statutes and bulletins of the University.

(Signature)

COLUMBIA UNIVERSITY • FACULTY OF MEDICINE

Application for Admission to Postgraduate Courses

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Date.....

Name
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Soc. Sec. No.

Age..... Sex..... Citizenship.....

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(Signature)

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